REMARKS

Entry of this Amendment and reconsideration are respectfully requested in view of the amendments made to the claims and for the remarks made herein.

Claims 1-25 are pending and stand rejected. Claims 1, 14, 15, 17 and 18 have been amended.

Applicant acknowledges the examiner's request to provide copies of the prior art cited on page 14 of the specification and will provide these documents subsequent to the filing of this Amendment.

Claims 1-8, 14-21 and 24-25 stand rejected under 35 USC 102(e) as being anticipated by Iu.

Applicant respectfully disagrees with, and explicitly traverses, the reason for rejecting the claims. However, in the interest of advancing the prosecution of this matter, independent claims 1, 14, 17 and 18 have been amended to more clearly state the invention. More specifically, the independent claims have been amended to recite "wherein for a given coefficient the calculation cost is at least partly based on an amount of calculation steps ... and is not greater than prior selected coefficient calculation costs." No new matter has been added.

Support for the amendment may be found on page 9, lines 12-20, which state, in part, "Using this database, we can focus on finding the next DCT coefficient that needs the least operations, depending on the calculations already done. This will give an algorithm-dependent calculation order of the coefficients. ... which leads to less remaining calculation cost for B_1 than B_3 in the second step. This can be seen in Table 2, where the database of Table 1 has been updated by the information, that B_2 has been calculated."

Iu, as read by applicant, discloses a system for motion transformation by calculating the motion field between two images. The transform coefficients are estimated based upon a previously determined image gradient. Iu discloses multiple methods for handling the selection of coefficients to keep the number of coefficients small while producing good motion estimates. One method is to use LookUp Tables (LUT) to save time in computing the basis functions at fixed sampling points for faster

implementation. In the LUT, the basic functions are pre-calculated since they are repeatedly referenced during each subsequent iteration.

Iu fails to describe "wherein for a given coefficient the calculation cost is at least partly based on an amount of calculation steps that is required to calculate the given coefficient ...and is not greater than prior selected coefficient calculation costs," as is described in claim 1. Rather, Iu teaches that the coefficients may be calculated using information prestored in an LUT and that each coefficient is calculated independent of the prior calculation. Iu fails to describe that the order of selection is based partially on the coefficient cost being not greater than prior selected coefficient calculation costs.

A claim is anticipated only if each and every element recited therein is expressly or inherently described in a single prior art reference. Iu cannot be said to anticipate the present invention, because Iu fails to disclose each and every element recited.

Accordingly, applicant submits that the reason for the rejection of the claim has been overcome and can no longer be sustained. Applicant respectfully requests withdrawal of the rejection and allowance of the claim.

With regard to remaining independent claims 14, 15, 17 and 18, these claims recite subject matter similar to that recited in claim 1 and were rejected for the same reason used in rejecting claim 1. Thus, for the amendment made to each of the independent claims, which is similar to the amendments made to claim 1 and for the remarks made in response to the rejection of claim 1, which are also applicable in response to the rejection of the remaining independent claims, and reasserted, as if in full, herein, in response to the rejection of these claims, applicant submits that the reason for rejecting the independent claims has been overcome and the rejection can no longer be sustained. Applicant respectfully requests withdrawal of the rejection and allowance of the remaining independent claims.

With regard the dependent claims, these claims ultimately depend from the independent claims, which have been shown to contain subject matter not disclosed by, and, hence, allowable over, the reference cited. Accordingly, these claims are also allowable by virtue of their dependency from an allowable base claim.

Accordingly, applicant respectfully requests withdrawal of the rejection and allowance of the claims.

Claims 9, 19, 22 and 23 stand rejected under 35 USC 103(a) as being unpatentable over Iu in view of Kim (USP no. 6,377,622).

Applicant respectfully disagrees with, and explicitly traverses, the reason for rejecting the claims.

Claims 9, 19, 22 and 23 depend from independent claims 1 and 18, respectively, which have been shown to include subject matter not disclosed by Iu. Kim discloses a method and system for coding images using scan interleaving. Kim teaches using horizontal or vertical scanning depending upon a generation frequency of the transitional sample data and the exceptional sample data. However, Kim fails to teach or suggest that the coefficients are based on an amount of calculation steps reduced with an amount of calculation that can be shared and is not greater than prior selected coefficient calculation costs, as is recited in the claims.

Neither Iu nor Kim, individually or in combination, teach or suggest all the elements recited in the above referred-to claims. From the teachings of Iu and Lim, even if combined, one would not be motivate to develop a system having all the features recited in the independent claim and, consequently the dependent claims 9, 19, 22 and 23.

Having shown that the combination of Iu and Kim fails to teach or suggest all the elements claimed, applicant submits that the reason for the rejection has been overcome and the rejection can no longer be sustained. Applicant respectfully requests withdrawal of the rejection and allowance of the claim.

The other claims in this application are each dependent from the independent claim discussed above and are therefore believed patentable for the same reasons. Since each dependent claim is also deemed to define an additional aspect of the invention, however, the individual consideration of the patentability of each on its own merits is respectfully requested.

Although the last Office Action was made final, this amendment should be entered. No matter has been added to the claims that would require comparison with the prior art or any further review only require a cursory review is required by the examiner. The amendment therefore should be entered without requiring a showing under 37 CFR 1.116(b).

For all the foregoing reasons, it is respectfully submitted that all the present claims are patentable in view of the cited references. A Notice of Allowance is respectfully requested.

Respectfully submitted,

Russell Gross
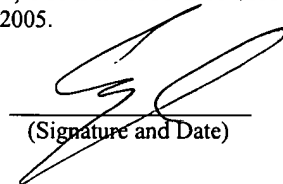Registration No. 40,007

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By: Steve Cha
Attorney for Applicant
Registration No. 44,069

Mail all correspondence to:
Russell Gross, Registration No. 40,007
US PHILIPS CORPORATION
P.O. Box 3001
Briarcliff Manor, NY 10510-8001
Phone: (914) 333-9624
Fax: (914) 332-0615

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Steve Cha, Reg. No. 44,069
(Name of Registered Rep.)

(Signature and Date)